

CLAIMS

1. A spatial image type display comprising at least two display devices having respective display surfaces for displaying image data in the same direction, said display surfaces being aligned with an appropriate spacing therebetween, wherein

said display surface of a front display device out of said at least two display devices lying in front and behind has a transparent region for transmitting the image data on said display surface of a rear display device forward.

2. The spatial image type display according to claim 1, wherein a number of pixels are formed on said respective display surfaces of said at least two display devices at a predetermined pixel pitch.

3. The spatial image type display according to claim 1, wherein a number of pixels are formed on said respective display surfaces of said at least two display devices at different pixel pitches depending on said respective display devices.

4. The spatial image type display according to claim 2 or 3, wherein said transparent region is formed at least in conformity with the pixel pitch on said display surface of said front display device.

5. The spatial image type display according to claim 2 or 3, wherein said transparent region is formed at least in conformity with the pixel pitch on said display surface of said rear display device.

6. The spatial image type display according to any one of claims 1-5, wherein said respective display surfaces of said front display device and rear display device lying in front and behind display the same image data with different brightnesses to make stereoscopic display.

7. The spatial image type display according to any one of claims 1-5, wherein said respective display surfaces of said front display device and rear display device lying in front and behind display split image data to make stereoscopic display, said split images being obtained by splitting the image to be displayed.

8. The spatial image type display according to any one of claims 1-5, wherein said display device is made of an organic EL display each.

9. The spatial image type display according to any one of claims 1-5, wherein a rearmost display device out of said at least two display devices is made of a liquid crystal display, and the other display device(s) is/are made of an organic EL display each.

10. A spatial image type display comprising:
a frame;
a display unit enclosed by said frame;
an electric circuit substrate including a display control circuit for displaying images; and

at least two display devices included in said display unit,
wherein said at least two display devices having respective
display surfaces for displaying image data in the same direction,
said display surfaces being aligned with an appropriate spacing
5 therebetween,

wherein said display surface of a front display device out
of said at least two display devices lying in front and behind has
a transparent region for transmitting the image data on said display
surface of a rear display device forward.

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11. The spatial image type display according to claim 10, wherein
said electric circuit substrate feeds image data signals which are
produced by adjusting an amplitude of a video signal to said respective
display devices.

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12. The spatial image type display according to claim 10 or 11,
wherein said respective display surfaces of said front display device
and rear display device lying in front and behind display the same
image with different brightnesses as the image data to make
20 stereoscopic display.

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13. The spatial image type display according to claim 10 or 11,
wherein said respective display surfaces of said front display device
and rear display device lying in front and behind display split
images as the image data to make stereoscopic display, said split
images being obtained by splitting the image to be displayed.

14. The spatial image type display according to any one of claims 10-13, wherein said display device is made of an organic EL display each.

5 15. The spatial image type display according to any one of claims 10-13, wherein a rearmost display device out of said at least two display devices is made of a liquid crystal display, and the other display device(s) is/are made of an organic EL display each.

10 16. The spatial image type display according to claim 10, wherein said image data comprises a number of pixel data.

17. The spatial image type display according to claim 10, wherein said image data comprises a number of groups of pixel data.

15 18. The spatial image type display according to claim 10, wherein said transparent region is overlapped with a region of the image data of the rear display device with the spacing kept in a direction of an optical axis.

20 19. The spatial image type display according to claim 11, wherein said amplitudes of the image data signals are set in accordance with a depth of each portion of the stereoscopic image with respect to a reference position, which is an assumed position of a viewer.